



P65-5_50Hz

Output Ratings

Voltage, Frequency		Prime	Standby
400/230 V, 50 Hz	kVA	60	65
	kW	48	52
	kVA		
	kW		



Ratings at 0.8 power factor.
Please refer to the output ratings technical data section for specific generator set outputs per voltage.



Dimensions and Weights

Length	mm	1680 (66.1)
Width	mm	760 (29.9)
Height	mm	1330 (52.4)
Weight (Dry)	kg	765 (1687)
Weight (Wet)	kg	778 (1715)

Ratings in accordance with ISO 8528, ISO 3046, IEC 60034, BS5000 and NEMA MG-1.22.
Generator set pictured may include optional accessories.

Prime Rating

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Standby Rating

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

Standard Reference Conditions

Note: Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity.
Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.

FG Wilson offer a range of optional features to allow you to tailor our generator sets to meet your power needs.
Options available include:

- Upgrade to CE Certification
- A wide range of Sound Attenuated Enclosures
- A variety of generator set control and synchronising panels
- Additional alarms and shutdowns
- A selection of exhaust silencer noise levels

For further information on all of the standard and optional features accompanying this product please contact your local Dealer or visit:

www.fgwilson.com

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Ratings and Performance Data

Engine Make	Perkins		
Engine Model:	1103A-33TG2		
Alternator Make	FG Wilson		
Alternator Model:	FGL20080		
Control Panel:	FG100		
Base Frame:	Heavy Duty Fabricated Steel		
Circuit Breaker Type:	3 Pole MCB/MCCB		
Frequency:	50 HZ		60 HZ
Engine Speed: RPM	rpm	1500	1800
Fuel Tank Capacity:	litres (US gal)	145 (38.3)	
Fuel Consumption Prime	litres (US gal)/hr	13.7 (3.6)	
Fuel Consumption Standby	litres (US gal)/hr	15 (4)	

Engine Technical Data

No. of Cylinders	3		
Alignment	IN LINE		
Cycle	4 STROKE		
Bore	mm (in)	105 (4.1)	
Stroke	mm (in)	127 (5)	
Induction	TURBOCHARGED		
Cooling Method	WATER		
Governing Type	MECHANICAL		
Governing Class	ISO 8528 G2		
Compression Ratio	17.25:1		
Displacement	L (cu. in)	3.3 (201.4)	
Moment of Inertia:	kg m ² (lb/in ²)	1.14 (3896)	
Voltage	12		
Ground	Negative		
Battery Charger Amps	65		
Engine Weight Dry	kg (lb)	341 (752)	
Engine Weight Wet	kg (lb)	348 (767)	

Engine Performance Data

		50 Hz	60 Hz
Engine Speed	rpm	1500	1800
Gross Engine Power Prime	kW (hp)	55 (74)	63.3 (85)
Gross Engine Power Standby	kW (hp)	60.5 (81)	71.3 (96)
BMEP Prime	kPa (psi)	1333 (193.4)	1279 (185.5)
BMEP Standby	kPa (psi)	1467 (212.8)	1406 (209)

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Fuel System

Fuel Filter Type:		Replaceable Element			
Recommended Fuel:		Class A2 Diesel			
Fuel Consumption at		110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)	15 (4)	13.7 (3.6)	10.2 (2.7)	7.1 (1.9)
50 Hz Standby	l/hr (US gal/hr)	-	15 (4)	11 (2.9)	7.6 (2)
60 Hz Prime	l/hr (US gal/hr)				
60 Hz Standby	l/hr (US gal/hr)	-			

(Based on diesel fuel with a specific gravity of 0.84 and conforming to BS2869 classA2,EN590)

Air System

Air System		50 Hz	60 Hz
Air Filter Type:		Replaceable Element	
Combustion Air Flow Prime	m ³ /min (cfm)	3.8 (134)	
Combustion Air Flow Standby	m ³ /min (cfm)	3.9 (138)	
Max. Combustion Air Intake Restriction	kPa	8 (32.1)	

Cooling System

Cooling System		50 Hz	60 Hz
Cooling System Capacity	l (US gal)	10.2 (2.7)	
Water Pump Type:		Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	35.2 (2002)	
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	37.7 (2144)	
Heat Radiation to Room*: Prime	kW (Btu/min)	15.5 (881)	
Heat Radiation to Room*: Standby	kW (Btu/min)	17 (967)	
Radiator Fan Load:	kW (hp)	1 (1.3)	
Radiator Cooling Airflow:	m ³ /min (cfm)	110.4 (3899)	
External Restriction to Cooling Airflow:	Pa (in H ₂ O)	125 (0.5)	

*: Heat radiated from engine and alternator

Designed to operate in ambient conditions up to 50°C (122°F).

Contact your local FG Wilson Dealer for power ratings at specific site conditions.

Lubrication System

Oil Filter Type:		Spin-On, Full Flow	
Total Oil Capacity:	l (US gal)	8.3 (2.2)	
Oil Pan Capacity:	l (US gal)	7.8 (2.1)	
Oil Type:		API CG4 / CH4 15W-40	
Oil Cooling Method:		WATER	

Exhaust System

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	10 (3)	
Exhaust Gas Flow: Prime	m ³ /min (cfm)	10.1 (357)	
Exhaust Gas Flow: Standby	m ³ /min (cfm)	10.4 (367)	
Exhaust Gas Temperature: Prime	°C (°F)	557 (1035)	
Exhaust Gas Temperature: Standby	°C (°F)	571 (1060)	

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Alternator Physical Data

No. of Bearings:	1
Insulation Class:	H
Winding Pitch:	2/3
Winding Code	6P/6S
Wires:	4
Ingress Protection Rating:	IP23
Excitation System:	SHUNT
AVR Model:	R120

* dependant on voltage code selected

Alternator Operating Data

Overspeed: rpm	2250
Voltage Regulation: (Steady state) %	+/- 0.5
Wave Form NEMA = TIF:	50
Wave Form IEC = THF: %	2
Total Harmonic content LL/LN: %	2
Radio Interference:	EN61000-6
Radiant Heat: 50 Hz kW (Btu/min)	6 (341)
Radiant Heat: 60 Hz kW (Btu/min)	0 ()

Alternator Performance Data 50 Hz:

		415/240 V	400/230 V	380/220 V	220/127 V
Voltage Code					
			200/115 V		
Motor Starting Capability*	kVA	122	115	106	134
Short Circuit Capacity**	%	270	270	270	270
Reactances	Xd	2.82	3.04	3.253	2.18
	X'd	0.136	0.146	0.157	0.105
	X''d	0.075	0.075	0.08	0.054

Alternator Performance Data 60 Hz

Voltage Code

Motor Starting Capability*	kVA					
Short Circuit Capacity**	%	270	270	270	270	270
Reactances	Xd					
	X'd					
	X''d					

Reactances shown are applicable to prime ratings.

*Based on 30% voltage dip at 0.6 power factor.

** With optional independant excitation system (PMG / AUX winding)

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Output Ratings 50 Hz

Voltage Code	kVA	Prime		Standby	
		kW	kVA	kW	kVA
415/240V	60	48	65	52	
400/230V	60	48	65	52	
380/220V	60	48	65	52	
230/115V	60	48	65	52	
220/127V	60	48	65	52	
220/110V	60	48	65	52	
200/115V	60	48	65	52	
240V					
230V					
220V					

Output Ratings 60 Hz

Voltage Code	kVA	Prime		Standby	
		kW	kVA	kW	kVA
480/277V					
440/254V					
416/240V					
400/230V					
380/220V					
240/139V					
240/120V					
230/115V					
220/127V					
220/110V					
208/120V					
240/120					
220/110					



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Contact Details



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Documentation

Operation and maintenance manual including circuit wiring diagrams.

Generator Set Standards

The equipment meets the following standards: BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.

Warranty

6.8 – 750 kVA electric power generation products in prime applications the warranty period is 12 months from date of start-up, unlimited hours (8760). For standby applications the warranty period is 24 months from date of start-up, limited to 500 hours per year.

730 – 2500 kVA electric power generation products in prime applications the warranty period is 12 months from date of start-up, unlimited hours (8760 hours) or 24 months from date of start-up, limited to 6000 hours. For standby applications the warranty period is 36 months from date of start-up, limited to 500 hours per year.

FG Wilson manufactures product in the following locations:

Northern Ireland • Brazil • China • India

With headquarters in Northern Ireland, FG Wilson operates through a Global Dealer Network.

To contact your local Sales Office please visit the FG Wilson website at www.fgwilson.com.

FG Wilson is a trading name of Caterpillar (NI) Limited.

In line with our policy of continuous product development, we reserve the right to change specification without notice.

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